ABSTRACT OF THE INVENTION

The present invention is to provide a burst transfer mechanism of network packets having MAC frames over USB bus, which is designed in an Application Specific Integrated Circuit (ASIC) being installed in a USB compliant networking device, enabling the networking device to assemble a plurality of Ethernet network packets having MAC frames together as a super-size network packet and, while receiving a Bulk In/Out request packet, transfer the super-size network packet into a plurality of USB packets having maximum packet size defined for the USB endpoint, and transmit the USB packets out within a burst cycle of Bulk In/Out transaction, in order to greatly improve and enhance the throughput performance of the network packets over USB bus.